



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory
NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



Job No.: CTCE/BBMP/KRIDL/W.No.13/CSR-03/585g/CEMENT/2017-18

Date: 08.03.2018

TEST REPORT ON CEMENT

* Customer	:	Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	Technical Manager (West), KRIDL, Bangalore.
* Name of Work	:	Improvements of asphaltting at Ashwathkotte surrounding area in Mallasandra Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/220/2017-18 Dated: 07.02.2018
* Sample ID	:	Cement - Sample 2
Sample Received on	:	05.03.2018
Period of Testing	:	05.03.2018 to 08.03.2018

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	29.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	170 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	490 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Note:

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- ⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.
- ⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

VIDYARANI P.K.
Technical Manager

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.

Tele Fax : 23223227, Website : www.civiltechconsultants.com

E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com



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Job No.: CTCE/BBMP/KRIDL/W.No.13/CSR-03/585g/SAND-Gradation/2017-18

08.03.2018

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
* Agency : Technical Manager (West), KRIDL, Bangalore.
* Name of Work : Improvements of asphaltting at Ashwathkatte surrounding area in Mallasandra Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference : BBMP/EE/DD/WO/220/2017-18 Dated: 07.02.2018
* Sample ID : Fine Aggregates - Sample 2
Technical Reference : IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On : 05.03.2018
Date of Testing : 08.03.2018



Total Wt. of Aggregates in gms = 1000

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	97.40	90-100	90-100	90-100	95-100
2.36	78.40	60-95	75-100	85-100	95-100
1.18	58.40	30-70	55-90	75-100	90-100
600 Micron	40.40	15-34	35-59	60-79	80-100
300 Micron	21.90	5-20	8-30	12-40	15-50
150 Micron	4.50	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

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Technical Manager

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Tele Fax : 23223227, Website : www.civiltechconsultants.com

E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com



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Job No.: CTCE/BBMP/KRIDL/W.No.13/CSR-03/585g/Kerb stone/2017-18

14.03.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	: Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager (West), KRIDL, Bangalore.
* Name of work	: Improvements of asphaltting at Ashwathkatte surrounding area in Mallasandra Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE/DD/WO/220/2017-18 Dated: 07.02.2018
* Sample ID	: Kerb sone
* Grade of Concrete	: M ₁₅
Technical Reference	: IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	: 09.03.2018
Date of Testing	: 14.03.2018



Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m ³)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm ²)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm ²)	Equivalent Cube Compressive Strength (N/mm ²)
1	50.00	77.00	0.383	2533.25	1.54	0.950	22.85	11.64	12.57	13.23	16.53
2	50.00	79.00	0.390	2514.25	1.58	0.955	24.85	12.66	13.67	13.05	16.31
3	50.00	80.00	0.398	2533.75	1.60	0.957	27.05	13.78	14.88	14.24	17.79

* Information is furnished by the Customer/Representative

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Job No.: CTCE/BBMP/KRIDL/W.No.13/CSR-03/585g/Precast slab/2017-18

14.03.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	Technical Manager (West), KRIDL, Bangalore.
* Name of work	:	Improvements of asphaltting at Ashwathkatte surrounding area in Mallasandra Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/220/2017-18 Dated: 07.02.2018
* Sample ID	:	Precast slab (100mm thick)
* Grade of Concrete	:	M ₂₀
Technical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	09.03.2018
Date of Testing	:	14.03.2018



Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m ³)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm ²)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm ²)	Equivalent Cube Compressive Strength (N/mm ²)
1	50.00	84.00	0.420	2546.48	1.68	0.965	32.00	16.30	17.60	18.23	22.79
2	50.00	82.00	0.415	2577.53	1.64	0.961	33.60	17.11	18.48	17.76	22.20
3	50.00	83.00	0.418	2564.89	1.66	0.963	34.85	17.75	19.17	18.46	23.08

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VIDYARANI P.K.
Technical Manager

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶಿಬಿರ ಹುಬ್ಬಳ್ಳಿ, ದಾಖಲೆ ಪಡೆದು
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.

Tele Fax : 23223227, Website : www.civiltechconsultants.com

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An ISO 9001:2008 Certified Company

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Job No.: CTCE/BBMP/KRIDL/W.No.13/GSB-2/2017-18

20.03.2018

TEST REPORT ON GRADATION FOR CLOSE-GRADED GRANULAR SUB BASE

* Customer	: Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager (West), KRIDL, Bangalore.
* Name of work	: Improvements of asphaltting at Ashwathkatte surrounding area in Mallasandra Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE/DD/WO/220/2017-18 Dated: 07.02.2018
* Sample ID	: Close Graded-II
Technical Reference	: IS : 2720 (Part - 4) 1985 (RA-2010), MORTH Table : 400-1
Date of Testing	: 20.03.2018



Oven Dry Wt (gm) : 5000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified Limits
53	0	0	0	100	100
26.5	320	320	6.40	93.60	70-100
9.5	1750	2070	41.40	58.60	50-80
4.75	630	2700	54.00	46.00	40-65
2.36	635	3335	66.70	33.30	30-50
0.425	520	3855	77.10	22.90	15-25
0.075	725	4580	91.60	8.40	3-10
PAN	420				
Total	5000				



* Information is furnished by the Customer/Representative

Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading II

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Civil-tech Consultants & Engineers
#23/14, 7th Cross, 3rd Stage, 4th Block,
Shakthi Ganapathinagar,
Basaveshwaranagar, Bangalore-560 079.

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.

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E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com